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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,684	01/28/2004	Nabil L. Muhanna	126013-1003	2069

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STEVEN E. ROSS, IP SECTION
KENNETH T. EMANUELSON
GARDERE WYNNE SEWELL LLP
1601 ELM STREET, SUITE 3000
DALLAS, TX 75201

EXAMINER

SNOW, BRUCE EDWARD

ART UNIT	PAPER NUMBER
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3738

MAIL DATE	DELIVERY MODE
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05/07/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/766,684	Applicant(s) MUHANNA ET AL.	
	Examiner Bruce E. Snow	Art Unit 3738	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19 and 21-42 is/are pending in the application.
- 4a) Of the above claim(s) 33 and 37-41 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19, 21-32, 34-36 and 42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/18/08 has been entered.

Response to Amendment

The declaration filed on 4/18/08 under 37 CFR 1.131 is sufficient to overcome the Zubok et al and Shelokov references.

Response to Arguments

Applicant's arguments filed 4/18/08 have been fully considered but they are not persuasive. Regarding the Shelokov reference, Figure 1b at least shows at least a concave portion along P1. Figure 1a, shows an orthogonal view which is convex along P2; at least the portion along P1, P2 as shown in figure 1C is interpreted as being "substantially hyperbolic paraboloid shape".

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent

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and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 19, 21-32, 34-36, 42 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 19-36 of copending Application No. 11/648,384. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claims 19, 21-32, 34-36, 42 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 19-36 of copending Application No. 11/648,384. Although the conflicting claims are not identical, they are not patentably distinct from each other because are a broader language for the same device:

(NEW) A prosthetic disc comprising:

a disc body, having a first surface that is a concave-convex articulating surface and a second surface as a base adapted for fixation to a first bone surface.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 19, 21-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Burkinshaw (6,602,292).

Burkinshaw teaches:

19. (Currently Amended) A prosthetic disc comprising:

a disc body 30 having a first surface 44 that is a concave-convex articulating surface and a second surface 74 as a base adapted for fixation to a first bone surface, wherein the concave-convex articulating surface has a substantially hyperbolic paraboloid shape (see 4:8).

Claim 24, see 34.

Claims 26-28, see 5:48 et seq.

Claim 29 is functional language only.

Claim 30, fully capable of.

Claim 34 is not positively claiming the second body.

Regarding claim 42, "has a hyperbolic paraboloid shape" is interpreted as being broader and does not limit explicitly to being a hyperbolic paraboloid.

Claims 19, 21-23, 25, 28-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Giannestras et al (3,872,519).

Giannestras et al teaches:

19. (Currently Amended) A prosthetic disc comprising:

a disc body B, having a first surface (generally 40) that is a concave-convex articulating surface and a second surface (generally 42) as a base adapted for fixation

to a first bone surface, wherein the concave-convex articulating surface has a substantially hyperbolic paraboloid shape.

Claim 23, see 3:49.

Claim 34, see element A.

Regarding claim 42, “has a hyperbolic paraboloid shape” is interpreted as being broader and does not limit explicitly to being a hyperbolic paraboloid.

Claims 19, 21-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Shelokov (6,039,763).

Shelokov teaches a prosthetic disc comprising:
a first and second disc bodies 1, 10 having complimentary saddle shaped articulating surfaces each surface being one of concave and convex in a first plane and the other of concave and convex in a perpendicular plane to first. The surfaces can be described as being parabolic, hyperbolic, or follows a radius.

The reference clearly teaches a disc body, having a first surface which is concave-convex and a second body which has a reciprocally concave-convex articulating surface.

Figure 1b at least shows at least a concave portion along P1. Figure 1a, shows an orthogonal view which is convex along P2; at least the portion along P1, P2 as shown in figure 1C is interpreted as being “substantially hyperbolic paraboloid shape”. Also see 6:46-60. A portion of a hyperboloid would be “substantially hyperbolic paraboloid shape”.

Regarding claims 24-27, see at least 9:47 et seq.

Regarding claim 42, "has a hyperbolic paraboloid shape" is interpreted as being broader and does not limit explicitly to being a hyperbolic paraboloid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce E. Snow whose telephone number is (571) 272-4759. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

bes

/Bruce E Snow/

Primary Examiner, Art Unit 3738